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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/589,597	05/30/2007	Huiling Liu	FI-83PCT	9890
40570 Lucas & Merca	7590 01/28/201 nti, LLP		EXAMINER	
475 Park Avenu	ie South, 15th Floor		COVINGTON, RAYMOND K	
New York, NY	10010		ART UNIT	PAPER NUMBER
			1625	
			MAIL DATE	DELIVERY MODE
			01/28/2011	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
	10/589,597	LIU ET AL.	
Office Action Summary	Examiner	Art Unit	
	Raymond Covington	1625	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet wit	h the correspondence addre	ess
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period  - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNIC 136(a). In no event, however, may a re- will apply and will expire SIX (6) MONT e, cause the application to become ABA	ATION. bly be timely filed  HS from the mailing date of this communDONED (35 U.S.C. § 133).	
Status			
1) ☐ Responsive to communication(s) filed on 22 № 2a) ☐ This action is <b>FINAL</b> . 2b) ☐ This 3) ☐ Since this application is in condition for alloward closed in accordance with the practice under the condition of	s action is non-final. .nce except for formal matte	•	nerits is
Disposition of Claims			
4) ☑ Claim(s) 28-33 is/are pending in the application 4a) Of the above claim(s) 29-33 is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☑ Claim(s) 28 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	wn from consideration.		
Application Papers			
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine 11.	cepted or b) objected to be drawing(s) be held in abeyand tion is required if the drawing(s	ee. See 37 CFR 1.85(a). s) is objected to. See 37 CFR	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Apority documents have been r u (PCT Rule 17.2(a)).	oplication No received in this National Sta	age
Attachment(s)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)	ımmary (PTO-413) /Mail Date formal Patent Application 	

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## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 28 is rejected under 35 U.S.C. 103(a) as being unpatentable over Brackenridge US 3959387 taken with Boswell et al US 4020112 and Forster et al US 4194054.

Brackenridge teaches brominated biphenylethers which contain a fluorine substituent. See, for example, column 3 lines 27+ and column 2 lines 44+ particularly line 55. it is also noted the degree of bromination is a function of the amount of fire retardance required. The claimed hexabromo compunds would have been obvious to one of ordinary skill in the art in light of these teachings.

Particularly in further view of Boswell et al and Forster et al. See, respectively, column 1 column 10 and column 16, and, column 1 lines 10-18 where R is arlyoxy with at least one halogen.

Applicants' comments have been noted and considered but are not deemed persuasive of patentability. Regarding the selection of halogen substituents it is additionally noted that the claims are drawn to compounds notwithstanding applicants' intended use. Further, the congeneric substitution of one halogen substituent for another on analogous compounds in view of the art as a whole would have been obvious to one of ordinary skill in the art.

No claim is allowed.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Raymond Covington whose telephone number is (571) 272-0681. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Janet Andres at telephone number (571) 272-0867.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/R. C./ Examiner, Art Unit 1625 /Janet L. Andres/ Supervisory Patent Examiner, Art Unit 1625